

Commercial Real Estate Energy Alliance Subcommittees

Targeting Areas for Improvement in Commercial Real Estate Energy Efficiency

Members of the Commercial Real Estate Energy Alliance (CREEA), in collaboration with the U.S. Department of Energy (DOE) and its national laboratories, are promoting research, technology, and best practices to reduce the energy consumption and carbon footprint of the commercial real estate market.

CREEA Steering Committee Members

- CB Richard Ellis Group, Inc.
- Cushman & Wakefield Inc.
- Grubb & Ellis Co.
- Hilton Worldwide
- Jones Lang LaSalle
- MGM MIRAGE
- The Walt Disney Co.
- Transwestern Property Co.
- U.S. General Services Administration
- USAA Real Estate Co.
- Wyndham Hotels and Resorts, LLC
- American Hotel & Lodging Association
- ASHRAE
- BOMA International
- IES
- International Council of Shopping Centers
- NAIOP
- The Real Estate Roundtable



CREEA members have access to advanced technologies emerging from DOE and the national laboratories. They also create and share successful, evidence-based strategies for integrating advanced, high-performance technologies or processes in their facilities. CREEA membership is open to real estate owners and operators, real estate investors, and real estate service providers and industry groups.

The CREEA Steering Committee has identified six areas in commercial real estate business and operations that require best practices toolkits and research into innovative, cost-effective technologies. These six areas form the basis for the CREEA subcommittees: Lighting; HVAC Systems; Hospitality; Shopping Center and Retail; Whole Building Integration; and Existing Buildings. Each CREEA member must choose a subcommittee of interest for their participation. The subcommittees develop consensus around their building areas and provide leadership and task guidance to the working groups.

Subcommittees

Lighting

While new lighting technologies are showing potential for energy savings, those in the commercial real estate market are concerned with their cost-effectiveness and quality. The Lighting Subcommittee works to identify and promote the development of cost-effective, high-quality interior and exterior energy-efficient lighting technologies for buildings and parking facilities. In addition, members work to improve the energy efficiency of other electrical equipment and plug loads.



The Hospitality Subcommittee focuses on the unique energy demands of hotels, resorts, and other lodging-specific commercial real estate buildings. Subcommittee members will rely on findings from CREEA's component-based subcommittees to inform whole-building energy practices for the hospitality sector.

HVAC Systems

Members of the HVAC Systems Subcommittee are developing a repository of cost- and energy-saving data from commercial building pilot projects and best practices for HVAC systems. Members are also working to develop more energy-efficient HVAC systems, as well as tools for analysis and implementation and identifying heat recovery opportunities and exploring building envelope improvements and dehumidification techniques that can reduce the energy consumption of HVAC systems.

Hospitality

The Hospitality Subcommittee works to improve energy efficiency and water-usage technologies that impact overall building energy usage specific to the hospitality sector. Technologies relevant to hospitality include laundry systems, restaurant technologies, and technologies with a lodging-space-specific focus. This subcommittee leverages individual

technology findings from other subcommittees as needed.

Shopping Center and Retail

Members of the Shopping Center and Retail Subcommittee work to improve the energy efficiency of technologies specific to their commercial building subsector, including retail space, plug and process loads, and restaurant technologies. This subcommittee leverages individual technology findings from other subcommittees as needed.

Whole Building Integration

The Whole Building Integration Subcommittee works to identify and promote the development of cost-effective building system integration strategies and technologies that reduce energy consumption in new buildings. The subcommittee explores practices that reduce energy usage for water heating and transport. They also investigate and promote the use of renewable materials and renewable energy in new construction projects.

Existing Buildings

The Existing Buildings Subcommittee explores energy-efficiency practices and investigates and promotes the business case for retrofitting existing building stock. Additionally, members help identify innovative solutions to improve marketplace adoption of energy-efficiency technologies. As an example, the subcommittee might work with utilities to improve controls and/or information systems that would drive energy efficiency.

Visit commercialbuildings.energy.gov/real_estate for more information about joining the Commercial Real Estate Energy Alliance.

A Strong Energy Portfolio for a Strong America

Energy efficiency and clean, renewable energy will mean a stronger economy, a cleaner environment, and greater energy independence for America. Working with a wide array of state, community, industry, and university partners, the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy invests in a diverse portfolio of energy technologies.